



Proposed Code Change
State Form 41186R

RETURN TO:
INDIANA DEPARTMENT OF HOMELAND SECURITY
CODE SERVICES SECTION
302 W. Washington Street Room W246
Indianapolis, IN 46204

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Received 11/9/09

Code 52.3.2.6-09

INSTRUCTIONS:

Only TYPED copy accepted.

(KEY – Dashed line through material to be deleted, underline material to be added)

Use second sheet for any material requiring more space.

Code Title 2009 Indiana Residential Code		Edition First Edition
Section number and title Table N1102.1.2 Equivalent U-factors		Page 1 of 1
Proponent Craig Wagner	Title Chief Building Inspector/ IABO Code Comm. Member	
Address 220 W Van Buren St, Columbia City IN 46725		Phone 260-248-3111
PROPOSED CODE CHANGE (Check One)		

☒ Change to read as follows ☐ Add to read as follows ☐ Delete and substitute as follows ☐ Delete without substitution

Change Table 1102.1.2 as follows:

TABLE N1102.1.2
EQUIVALENT U-FACTORS *

CLIMATE Z O N E	FENES- TRATION U-FACTOR	SKY- LIGHT U-FACTOR	CEILING U-FACTOR	FRAME WALL U-FACTOR	MASS WALL U-FACTOR ^b	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR ^d	CRAWL SPACE WALL U-FACTOR ^e
1	1.20	0.75	0.035	0.082	0.197	0.064	0.360	0.477
2	0.65	0.75	0.035	0.082	0.165	0.064	0.360	0.477
3	0.50	0.65	0.035	0.082	0.141	0.047	0.091 ^c	0.136
4 except Marine	0.35	0.60	0.030	0.082	0.141	0.047	0.059	0.065
5 and Marine 4	0.35	0.60	0.030	0.060 <u>0.057</u>	0.082	0.033	0.059	0.065
6	0.35	0.60	0.026	0.060 <u>0.057</u>	0.060	0.033	0.059 <u>0.050</u>	0.065
7 and 8	0.35	0.60	0.026	0.057	0.057	0.033 <u>0.028</u>	0.059 <u>0.050</u>	0.065

- Nonfenestration *U*-factors shall be obtained from measurement, calculation or an approved source.
- When more than half the insulation is on the interior, the mass wall *U*-factors shall be a maximum 0.17 in zone 1, 0.14 in zone 2, 0.12 in zone 3, 0.10 in zone 4 except Marine and the same as the frame wall *U*-factor in Marine zone 4 and in zones 5 through 8.
- Basement wall *U*-factor of 0.360 in warm-humid climates as defined by Figure N1101.2 and Table N1101.2.

- d. Foundation U-factor requirements shown in Table N1102.1.2 include wall construction and interior air films but exclude soil conductivity and exterior air films. U-factors for determining code compliance in accordance with Section N1102.1.3 (total UA alternative) shall be modified to include soil conductivity and exterior air films.

REASON

This proposal U-factors in Table N1102.1.2 the IRC to the same listed in the 2009 IECC and adds a footnote d. This is one of the recommended changes to bring the IRC into equivalence with the IECC. (note: footnote d. is not listed in the 2009 dual-format version of the IECC/ASHRAE 90.1 but is in the 2009 IECC)

Fiscal impact:

REVIEW RECOMMENDATION

Approve

Disapprove

Approve as amended

Further Study